

SEQUENCE LISTING

<110> MCCARTHY, JUSTIN
CORDELL, BARBARA

<120> METHODS FOR IDENTIFYING INHIBITORS OF
NEURONAL DEGENERATION

<130> SCIOS.012A

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<170> FastSEQ for Windows Version 4.0

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<212> DNA

<213> Homo Sapien

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<213> Homo Sapien

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Arg Ser Asp Ala Ala Ser Ala Ser Ala Ala Arg Asp Asp Gly Val Lys
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Gly Lys Ser Ser Gly Ser Ala Arg Lys Gly Lys Gly Lys Arg Lys Arg
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145 150 155 160
Val Ser Asp Val Ser Ser Arg Tyr Ser Arg Thr Asp Arg Ser Gly Arg
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Tyr Asn Arg Asp Ala Asn Val Ser Gly Thr Val Ser Ser Ser Thr Lys
180 185 190
Lys Asp Lys Val Val Thr Arg Asn Arg Val Arg Met Asp Lys Met Gly
195 200 205
Lys Lys Asp Asn Arg Asp Asp Asp Asn Lys Asn Lys Thr Lys Val
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Val Gly Thr Arg Met Ala Thr Gly Gly Tyr Arg Thr Ser Ser Gly Gly
225 230 235 240
Gly Ser Thr Thr Asp Trp Lys Ala Lys Arg Lys Met Arg Ala Lys Asn
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Gly Ala Gly Gly Gly Ser Ser Asp Ala Ala Gly Lys Ala Gly Ala Gly
260 265 270
Thr Ala Ala Ala Ala Ala Asn Asn Asn Asn Gly Gly Ala Ala Ala Ala
275 280 285

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gly | Gly | Gly | Val | Asn | Cys | Ala | Val | Gly | Ser | Ala | Met | Thr | Arg | Ala |
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| Gly | Val | Lys | Gly | Lys | Ser | Ser | Gly | Ser | Ala | Arg | Lys | Gly | Lys | Gly | Lys |
| | | | | 325 | | | | | 330 | | | | | 335 | |
| Arg | Lys | Arg | Lys | Arg | | | | | | | | | | | |
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35 40 45
Pro Leu Ser Asn Gly Arg Pro Gln Gly Asn Ser Arg Gln Val Val Glu
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Gln Asp Glu Glu Glu Asp Glu Glu Leu Thr Leu Lys Tyr Gly Ala Lys
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85 90 95
Val Ala Thr Ile Lys Ser Val Ser Phe Tyr Thr Arg Lys Asp Gly Gln
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Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr Glu Thr Val Gly Gln Arg
115 120 125
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Val Met Thr Ile Leu Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys
145 150 155 160
Val Ile His Ala Trp Leu Ile Ile Ser Ser Leu Leu Leu Phe Phe
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Phe Ser Phe Ile Tyr Leu Gly Glu Val Phe Lys Thr Tyr Asn Val Ala
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Val Asp Tyr Ile Thr Val Ala Leu Leu Ile Trp Asn Phe Gly Val Val

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | 195 | | 200 | | 205 | | | | | | | | | | | | |
| Gly | Met | Ile | Ser | Ile | His | Trp | Lys | Gly | Pro | Leu | Arg | Leu | Gln | Gln | Ala | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | |
| Tyr | Leu | Ile | Met | Ile | Ser | Ala | Leu | Met | Ala | Leu | Val | Phe | Ile | Lys | Tyr | | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | | |
| Leu | Pro | Glu | Trp | Thr | Ala | Trp | Leu | Ile | Leu | Ala | Val | Ile | Ser | Val | Tyr | | |
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| Asp | Leu | Val | Ala | Val | Leu | Cys | Pro | Lys | Gly | Pro | Leu | Arg | Met | Leu | Val | | |
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| Glu | Thr | Ala | Gln | Glu | Arg | Asn | Glu | Thr | Leu | Phe | Pro | Ala | Leu | Ile | Tyr | | |
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| Ser | Ser | Thr | Met | Val | Trp | Leu | Val | Asn | Met | Ala | Glu | Gly | Asp | Pro | Glu | | |
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| Ala | Gln | Arg | Arg | Val | Ser | Lys | Asn | Ser | Lys | Tyr | Asn | Ala | Glu | Ser | Thr | | |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 | | |
| Glu | Arg | Glu | Ser | Gln | Asp | Thr | Val | Ala | Glu | Asn | Asp | Asp | Gly | Gly | Phe | | |
| | | | | 325 | | | | | 330 | | | | | 335 | | | |
| Ser | Glu | Glu | Trp | Glu | Ala | Gln | Arg | Asp | Ser | His | Leu | Gly | Pro | His | Arg | | |
| | | | 340 | | | | | 345 | | | | 350 | | | | | |
| Ser | Thr | Pro | Glu | Ser | Arg | Ala | Ala | Val | Gln | Glu | Leu | Ser | Ser | Ser | Ile | | |
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| Leu | Ala | Gly | Glu | Asp | Pro | Glu | Glu | Arg | Gly | Val | Lys | Leu | Gly | Leu | Gly | | |
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| Asp | Phe | Ile | Phe | Tyr | Ser | Val | Leu | Val | Gly | Lys | Ala | Ser | Ala | Thr | Ala | | |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 | | |
| Ser | Gly | Asp | Trp | Asn | Thr | Thr | Ile | Ala | Cys | Phe | Val | Ala | Ile | Leu | Ile | | |
| | | | | 405 | | | | | 410 | | | | | 415 | | | |
| Gly | Leu | Cys | Leu | Thr | Leu | Leu | Leu | Leu | Ala | Ile | Phe | Lys | Lys | Ala | Leu | | |
| | | | 420 | | | | | 425 | | | | 430 | | | | | |
| Pro | Ala | Leu | Pro | Ile | Ser | Ile | Thr | Phe | Gly | Leu | Val | Phe | Tyr | Phe | Ala | | |
| | | 435 | | | | | 440 | | | | | 445 | | | | | |
| Thr | Asp | Tyr | Leu | Val | Gln | Pro | Phe | Met | Asp | Gln | Leu | Ala | Phe | His | Gln | | |
| | 450 | | | | | 455 | | | | | 460 | | | | | | |
| Phe | Tyr | Ile | | | | | | | | | | | | | | | |
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 <213> Homo Sapien

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<210> 6
<211> 448
<212> PRT
<213> Homo Sapien

<400> 6

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| Arg | Thr | Ser | Leu | Met | Ser | Ala | Glu | Ser | Pro | Thr | Pro | Arg | Ser | Cys | Gln |
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| Glu | Gly | Arg | Gln | Gly | Pro | Glu | Asp | Gly | Glu | Asn | Thr | Ala | Gln | Trp | Arg |
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| Ser | Gln | Glu | Asn | Glu | Glu | Asp | Gly | Glu | Glu | Asp | Pro | Asp | Arg | Tyr | Val |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Cys | Ser | Gly | Val | Pro | Gly | Arg | Pro | Pro | Gly | Leu | Glu | Glu | Glu | Leu | Thr |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Leu | Lys | Tyr | Gly | Ala | Lys | His | Val | Ile | Met | Leu | Phe | Val | Pro | Val | Thr |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Leu | Cys | Met | Ile | Val | Val | Val | Ala | Thr | Ile | Lys | Ser | Val | Arg | Phe | Tyr |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Thr | Glu | Lys | Asn | Gly | Gln | Leu | Ile | Tyr | Thr | Thr | Phe | Thr | Glu | Asp | Thr |
| | | 115 | | | | | 120 | | | | | | 125 | | |
| Pro | Ser | Val | Gly | Gln | Arg | Leu | Leu | Asn | Ser | Val | Leu | Asn | Thr | Leu | Ile |
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| Met | Ile | Ser | Val | Ile | Val | Val | Met | Thr | Ile | Phe | Leu | Val | Val | Leu | Tyr |
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| Lys | Tyr | Arg | Cys | Tyr | Lys | Phe | Ile | His | Gly | Trp | Leu | Ile | Met | Ser | Ser |
| | | | 165 | | | | | | 170 | | | | | 175 | |
| Leu | Met | Leu | Leu | Phe | Leu | Phe | Thr | Tyr | Ile | Tyr | Leu | Gly | Glu | Val | Leu |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Lys | Thr | Tyr | Asn | Val | Ala | Met | Asp | Tyr | Pro | Thr | Leu | Leu | Leu | Thr | Val |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Trp | Asn | Phe | Gly | Ala | Val | Gly | Met | Val | Cys | Ile | His | Trp | Lys | Gly | Pro |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Leu | Val | Leu | Gln | Gln | Ala | Tyr | Leu | Ile | Met | Ile | Ser | Ala | Leu | Met | Ala |
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| Leu | Val | Phe | Ile | Lys | Tyr | Leu | Pro | Glu | Trp | Ser | Ala | Trp | Val | Ile | Leu |
| | | | 245 | | | | | | 250 | | | | | 255 | |
| Gly | Ala | Ile | Ser | Val | Tyr | Asp | Leu | Val | Ala | Val | Leu | Cys | Pro | Lys | Gly |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Pro | Leu | Arg | Met | Leu | Val | Glu | Thr | Ala | Gln | Glu | Arg | Asn | Glu | Pro | Ile |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Phe | Pro | Ala | Leu | Ile | Tyr | Ser | Ser | Ala | Met | Val | Trp | Thr | Val | Gly | Met |
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| Ala | Lys | Leu | Asp | Pro | Ser | Ser | Gln | Gly | Ala | Leu | Gln | Leu | Pro | Tyr | Asp |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| Pro | Glu | Met | Glu | Glu | Asp | Ser | Tyr | Asp | Ser | Phe | Gly | Glu | Pro | Ser | Tyr |
| | | | 325 | | | | | | 330 | | | | | 335 | |
| Pro | Glu | Val | Phe | Glu | Pro | Pro | Leu | Thr | Gly | Tyr | Pro | Gly | Glu | Glu | Leu |
| | | | 340 | | | | | 345 | | | | | 350 | | |
| Glu | Glu | Glu | Glu | Glu | Arg | Gly | Val | Lys | Leu | Gly | Leu | Gly | Asp | Phe | Ile |
| | | 355 | | | | | 360 | | | | | 365 | | | |
| Phe | Tyr | Ser | Val | Leu | Val | Gly | Lys | Ala | Ala | Ala | Thr | Gly | Ser | Gly | Asp |
| | 370 | | | | | 375 | | | | | 380 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Asn | Thr | Thr | Leu | Ala | Cys | Phe | Val | Ala | Ile | Leu | Ile | Gly | Leu | Cys |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| Leu | Thr | Leu | Leu | Leu | Leu | Ala | Val | Phe | Lys | Lys | Ala | Leu | Pro | Ala | Leu |
| | | | | 405 | | | | | 410 | | | | | 415 | |
| Pro | Ile | Ser | Ile | Thr | Phe | Gly | Leu | Ile | Phe | Tyr | Phe | Ser | Thr | Asp | Asn |
| | | | 420 | | | | | 425 | | | | | 430 | | |
| Leu | Val | Arg | Pro | Phe | Met | Asp | Thr | Leu | Ala | Ser | His | Gln | Leu | Tyr | Ile |
| | | 435 | | | | | 440 | | | | | 445 | | | |

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 <213> Homo Sapien

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 180
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 360
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 <213> Homo Sapien

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 <221> CDS
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<221> intron
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 120

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